

**Abstract:**

The invention relates to a method for the synthesis of nucleic acids, where incubation of a polymerase, a nucleic acid that can be used as a template for the polymerase, NTPs and  $Mn^{2+}$  is performed under conditions that enable the synthesis of a nucleic acid strand and the method is characterised by conditions that comprise a molar ratio of  $Mn^{2+}$ /NTP of not more than 0.7.